BRUHAT BANGALORE MAHANAGARA PALIKE

Office of the Executive Engineer, Rajarajeshwari Nagara Division, RR Nagara Zone, B.B.M.P., Bangalore.

Tender Notification No: EE/RRND/Tend/02/2020-21 Date: 10.06.2020

Indet No: BBMP/2020-21/WS/WORK_INDENT42926

SCHEDULE -B

Name of Work: Drilling of Borewell and Installation of pump and motor and laying of pipeline to providing driking water to Sidhartha nagara and Khata nagara in ward no 16 Jalahalli

Sl.No	Qty	Description of work	Unit	In Figures (Rs.)	In Words (Rs.)
1	2	3	4	5	6
1	2.00	Geophysical investigation of site for Sinking borewell for supplying drinking water to the habitations either through the hand pump,MWS,PWS by vertical electrical sounding by adpoting venner or Schlumberger's method,including reconnaissance survey of Geological formation. Geophysical investigation of existing ground indecundity its quality & acceptability of the users indicating the location of site,recommended depth of casing pipe required to seal the top in consolidated formation of proper scatting of casing pipe,depth of drilling required to cover full depth of aquifer proposed to be tapped,probable yield and other inflomation required including transporetation technical personal and labour etc.Complete as per the Direction of Engineer in charge	Each	1972.00	Rupees One Thousand Nine Hundred Seventy Two Only
2	100.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) Complete as per the Direction of Engineer in charge-------a) 00.00 to 50.00mtr	Rmtr	321.00	Rupees Three Hundred Twenty One Only
3	100.00	b) 50.00 to 100.00mtr	Rmtr	419.00	Rupees Four Hundred Nineteen Only
4	100.00	c) 100.00 to 150.00mtr	Rmtr	466.00	Rupees Four Hundred Sixty Six Only
5	100.00	d) 150.00 to 200.00mtr	Rmtr	493.00	Rupees Four Hundred Ninety Three Only
6	100.00	e) 200.00 to 250.00mtr	Rmtr	570.00	Rupees Five Hundred Seventy Only
7	100.00	f) 250.00 to 300.00mtr	Rmtr	611.00	Rupees Six Hundred Eleven Only

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8	100.00	f) 300.00 to 350.00mtr	Rmtr	652.00	Rupees Six Hundred Fifty Two Only
9	100.00	Supply of ISI mark 175MM nominal bore plain end Steel casing pipe-grade of steel Fe.410, of wall thickness 5.4 mm thick conforming to IS 4270:2001 and lates amendments electric resistance welded steel tube material and conforming to IS 1387/1993 & manufactured by basic open hearth electric or basic oxygen process in random length of 4 to 7 mtrs. Both ends threaded conforming to IS 554/1985. one end fixed with a socket conforming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight, should be with ISI marking, weighing 25.10 kg/mtr (inclusive of all taxes and duties)-Prices include Collar-medium duty Complete as per the Direction of Engineer in charge	Rmtr	1388.00	Rupees One Thousand Three Hundred Eighty Eight Only
10	2.00	Supply of 175mm MS Cap. Complete as per the Direction of Engineer in charge	Each	105.00	Rupees One Hundred Five Only
11	16.00	Supply of 175mm MS Collar.. Complete as per the Direction of Engineer in charge	Each	157.00	Rupees One Hundred Fifty Seven Only
12	2.00	Supply and delivery of submersible pump sets suitable for borewell of 165mm dia with specified duty conditions as detailed below and satisfying performance characteristics fro pump and motor specified in BIS with ISI mark with a minimum efficiency of 42% pump shall confirm to IS 8034/2002 and motor configuring to IS 9283/1995 with ISI certificationComplete as per the Direction of Engineer in charge	Nos	63604.00	Rupees Sixty Three Thousand Six Hundred Four Only
13	1360.00	Supply and drawing 3 core flat PVC Sheathed submersible pump cable manufactured with eloctrolytic grade copper conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming attwached GTP of group A 3C X 6.0 sqmmComplete as per the Direction of Engineer in charge	Mtrs	158.00	Rupees One Hundred Fifty Eight Only
14	2.00	Erection of Pumpset including alligning and balancing with all necessary erection materials and labour inlcuding supply and erection of one pair of supporting clams , borewell cap , cable clips with bolts , nuts , valve gauges etc., involved in the job. (Necessary G.I. pipe and specials will be supplied by the board at the site free of cost) (CE(M) BWSSB,Complete as per the Direction of Engineer in charge	Nos	1886.00	Rupees One Thousand Eight Hundred Eighty Six Only
15	2.00	Providing and fixing in position 50mm nominal bore non-return valve vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Complete as per the Direction of Engineer in charge	Nos	1436.00	Rupees One Thousand Four Hundred Thirty Six Only
16	4.00	Supply and fixing 50mm GI UnionComplete as per the Direction of Engineer in charge	Nos	234.00	Rupees Two Hundred Thirty Four Only

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17	2.00	Supply and fixing 50mm GI ElbowComplete as per the Direction of Engineer in charge	Nos	117.00	Rupees One Hundred Seventeen Only
18	4.00	Supply and fixing 50mm GI Nipple.Complete as per the Direction of Engineer in charge	Nos	109.00	Rupees One Hundred Nine Only
19	100.00	Supply and fixing 50mm heavy duty House Collars.Complete as per the Direction of Engineer in charge	Nos	108.00	Rupees One Hundred Eight Only
20	2.00	Supply and delivery at site brand New star / Essen/ Lotus/ Sunshine / Adarsh/ GK Controls best indigenous energy make combined energy meter cum control pannel board unit of size 1200 X 600 X 350mm mechanically strong vermin and water proof.The unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 voltsAC supply shall be consists etc, complete the panel board shall be consists etc., complete the panel board shall be fabricated on single unit in the above components panel board for suitable pumpset with Star Delta Starter out door type 10 HP to 15 HP Complete as per the Direction of Engineer in charge	Nos	6948.00	Rupees Six Thousand Nine Hundred Forty Eight Only
21	400.00	Providing and fixing to wall, ceiling and floor galvonised/ mild steel tube 50mm dia nominal bore with fittings(medium grade weight 1.27kg/mtr) B class including cost of materials , labour charges, HOM of equipment and tesing complete as per specifications.Complete as per the Direction of Engineer in charge	Rmtr	431.00	Rupees Four Hundred Thirty One Only
22	2.00	Erection of combine Panel borad and meter unit with necessary materials and labour including providing cement concrete foundation bed concrete door type etc complete. (CE(M) BWSSB, Complete as per the Direction of Engineer in charge	Nos	445.00	Rupees Four Hundred Forty Five Only
23	2.00	Supplying of TPST with rewireable porcelain channels in SM encloser made out of 14 SWG powder coated paint of approved colour 32 amps Group A Complete as per the Direction of Engineer in charge	Nos	1957.00	Rupees One Thousand Nine Hundred Fifty Seven Only
24	2.00	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank with front plank one end provided for holding at other end fixing the same of the valve using through bolts and nutsComplete as per the Direction of Engineer in charge	Nos	316.00	Rupees Three Hundred Sixteen Only
25	2.00	Supplying and fixing LED type pannel board indicating lamp with required colous suitable for 220 V AC 50Hz 12/24V DCComplete as per the Direction of Engineer in charge	Nos	463.00	Rupees Four Hundred Sixty Three Only
26	72.00	Wiring for lightnening/ power circuit using one of FRLS PVC Insulated 1100 V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 and confirming to the attatched GTP of group A. 4Sqmm. Complete as per the Direction of Engineer in charge	Mtrs	44.00	Rupees Forty Four Only

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27	6.00	Fixing a shunt capacity upto 5KVAR capacity with necessary clamps, bolts and nuts on existing woden or metal board including banking of more than one capacitor.Complete as per the Direction of Engineer in charge	Mtrs	145.00	Rupees One Hundred Forty Five Only
28	2.00	Supplying and fixing regular MCB distribution boards on wall/ wood board / Flush mounting using required clamps, bolts , nuts with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG M.S enclosure. 12A SP and N Complete as per the Direction of Engineer in charge	Nos	1097.00	Rupees One Thousand Ninety Seven Only
29	2.00	Supplying and fixing wiring earth electrode for grounding conduits IC Cutouts and other equipments on the meter board using 40mm dia 2.90mm thick G.I. pipe 2.5Mtr long buried in a pit..... The pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connections from the pipe to the conduit etc., is to be established though GI wire of size as per ISi specification 7.3.3 of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc., the pipe shall have 16though holes of 122mm dia .Complete as per the Direction of Engineer in charge	Nos	2858.00	Rupees Two Thousand Eight Hundred Fifty Eight Only
30	2.00	Supplying fully automatic Star delta starter unit push button type with suitable wires 3 contractors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400 / 400 volts phase and wired after fixing to the existing wooden board for motor Group A, II above 15HP up to 25 HP Complete as per the Direction of Engineer in charge	Each	6898.00	Rupees Six Thousand Eight Hundred Ninety Eight Only
31	12.00	Supplying and fixing Class A (Medium duty) -GI pipe wall thickness not less than 3.25mm on pole/wall/Drain crossing with necessary clamping arrangements for UG Cable of 1.1KV class 65mm Complete as per the Direction of Engineer in charge	Mtrs	613.00	Rupees Six Hundred Thirteen Only
32	60.00	Supplying laying of 1.1KV class L.TU.G Cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (except 2C X 10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554, Part -1:1988 & confirming to the attached GTP of Group A 3.5 core to 25 Sqmm Complete as per the Direction of Engineer in charge	Mtrs	174.00	Rupees One Hundred Seventy Four Only
33	60.00	Labour Charges for laying of 1.1 K.V class UG cable 6Sqmm to 16 sqmm Complete as per the Direction of Engineer in charge	Mtrs	11.00	Rupees Eleven Only
34	50.00	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating in Hard soil etc., complete as per specification and direction of Engineer-in-ChargeComplete as per the Direction of Engineer in charge	Mtrs	111.00	Rupees One Hundred Eleven Only
35	2.00	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen / insulating compound complete. With terminals, clamps, bolts nuts and washers etc., complete for 16 Sqmm as per specification (PWD Complete as per the Direction of Engineer in charge	Each	293.00	Rupees Two Hundred Ninety Three Only

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36	6.00	Supplying and fixing Porcelain fuse channel with cut out on the existing wooden block & wiring complete 32 amps Complete as per the Direction of Engineer in charge	Nos	189.00	Rupees One Hundred Eighty Nine Only
37	58.46	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear. from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.Complete as per the Direction of Engineer in charge	cum	332.00	Rupees Three Hundred Thirty Two Only
38	333.00	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - 50mm nominal OD pipes	Mtrs	480.00	Rupees Four Hundred Eighty Only
39	200.00	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - 20mm nominal OD pipes	Mtrs	174.00	Rupees One Hundred Seventy Four Only
40	100.00	Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure 63mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.	Mtrs	330.00	Rupees Three Hundred Thirty Only
41	58.46	Refilling available around earth pipe lines,cables in layers mot exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specifications.	cum	134.00	Rupees One Hundred Thirty Four Only
42	58.46	Loading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1	cum	100.00	Rupees One Hundred Only
43	30.00	Providing and fixing in position brass gate valve with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications.	Each	1932.00	Rupees One Thousand Nine Hundred Thirty Two Only
44	30.00	Making connection of G.I.distribution branch with G.I.main of 25mm to 40mm. Nominal bore, including cutting and threading the pipes,providing and fixing Tee, nuts,labour for all item of works,testing and HOM of equipments complete as per specifications.	Each	537.00	Rupees Five Hundred Thirty Seven Only
45	50.00	Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Each	157.00	Rupees One Hundred Fifty Seven Only

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46	29.23	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	cum	5667.00	Rupees Five Thousand Six Hundred Sixty Seven Only
47	19.49	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)	cum	6047.00	Rupees Six Thousand Forty Seven Only

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